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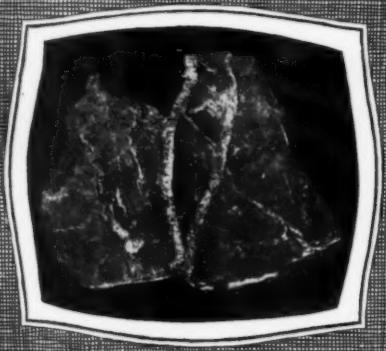
Vol.8 APRIL 1927 No. 10



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PUBLISHED BY

C. J. STOVER

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Dr. W. H. Huber (at right with fishing rod) President of the Asbestos Fibre Spinning Company, North Wales, Pa., spent two months in Florida during the past winter, recuperating from a six weeks stay in the hospital.

During his stay in Miami he had the pleasure of helping to bring in one of the most successful catches that came into that city during the winter. The catch represents a three days fishing trip off the reefs, about 65 miles south of Miami, when a total of between 600 and 700 pounds of fish were secured. The Sail Fish in the center is 6' 9" long, weighing 72 pounds. The Grouper, to the right, weighed 52 pounds and the Barracuda, to the right of the grouper, weighed 42 pounds. The balance of the fish are mostly Spanish Mackerel, King Mackerel, Barracuda, Amber Jack, Dolphin, Snapper, Nassau and Rock Grouper.

Asbestos Yarn

By J. M. Weaver, *Chairman, Sub-Committee XVI, American Society for Testing Materials*

Note: The following is a resume of information submitted by the writer to Sub-Committee XVI on Asbestos Textiles of Committee D-13 on Textile Products of the American Society for Testing Materials, at a meeting held March 11th and 12th at Massachusetts Institute of Technology, Cambridge, Mass.

It is to be understood that the information and suggestions have been submitted merely for tentative consideration as a basis for action to be taken at a future meeting in formulating tentative specifications.

The Asbestos Textile Industry uses the term "cut" as a unit of measure for classifying the size or yardage per pound of asbestos yarn. For example; one pound of single ply yarn that measures 500 yards long is a 5-cut yarn; one pound measuring 600 yards is a 6-cut, and so on.

The physical nature of asbestos fibre makes necessary the requirement of a manufacturing tolerance in diameter and yardage of asbestos yarn. Hence, a 10-cut yarn may run from 950 to 1050 yards to the pound of single ply yarn instead of measuring the exact 1000 yards that is set for its standard length.

The following table is presented as indicating the practice followed in asbestos textile mills:

Designation	Yardage Standard to Pound	Range of Yards Tolerated	Designation	Yardage Standard to Pound	Range of Yards Tolerated
5-cut	500 yds.	450 to 550	16-cut	1600 yds.	1500 to 1700
6-cut	600 yds.	550 to 650	18-cut	1800 yds.	1700 to 1900
7-cut	700 yds.	650 to 750	20-cut	2000 yds.	1900 to 2100
8-cut	800 yds.	750 to 850	24-cut	2400 yds.	2300 to 2500
9-cut	900 yds.	850 to 950	26-cut	2600 yds.	2500 to 2700
10-cut	1000 yds.	950 to 1050	28-cut	2800 yds.	2700 to 2900
12-cut	1200 yds.	1150 to 1250	30-cut	3000 yds.	2900 to 3100
14-cut	1400 yds.	1300 to 1500			

Two strands of single ply twisted together form two-ply yarn; three strands form three-ply, etc. Twisting causes a shrinkage in the length; hence, a single ply running 1000 yards to the pound, will, when twisted into two ply yarn, measure less than 500 yards. When "plain" yarn is twisted with one or more strands of brass, copper, or other fine wire, it becomes "metallic" yarn.

The Sail Fish in the center is 6' 9" long, weighing 72 pounds. The balance of the fish 52 pounds and the Barracuda, to the right of the grouper, weighed 42 pounds. represented are Spanish Mackerel, King Mackerel, Barracuda, Amber Jack, Dolphin, Snapper, Nassau and Rock Grouper.

Composition and Grades of Asbestos Yarn.

The individual asbestos fibre is unlike any other fibre used in the textile industry in that it has the same diameter thruout its entire length; it is smoother than any other fibre, having no nodules, twists or any irregularity on its surface that will cause one fibre to cling to another. Asbestos fibres slip past each other so easily that the production of 100% asbestos yarn is slow and expensive. To produce asbestos textile commodities at the speed and in quantities required for commercial purposes, it is necessary to mix with asbestos fibre some other kind of fibre that will act as a vehicle to carry the asbestos thru the manufacturing processes. Cotton is used almost exclusively for the purpose. Experience has shown that a cotton content of approximately 20% in the finished yarn forms a yarn that is satisfactory for most purposes.

Asbestos Fibres are immeasurably finer in diameter than cotton fibres. In a yarn containing 20% cotton there may be found hundreds of asbestos fibres to each cotton fibre. The cotton fibres are so thoroly surrounded and protected by the asbestos fibres that the term "Commercially Pure" or "C. P." is in general use in the asbestos industry for yarn containing 15% to 20% cotton. The "C. P." grade is, in some asbestos textile mills, known as No. 4 quality; the other grades running No. 3, No. 2 and No. 1, in reducing steps of cotton content, each containing approximately 5% less cotton than the next higher number.

The term "Commercially Pure" and its abbreviation, "C. P." are objectionable for the reason that the chemical industry has prior right to the use of the abbreviation "C. P." as expressing the term "chemically pure." Quality designations by numbers are open to criticism because they are misleading.

For most purposes asbestos yarn containing 15% to 20% cotton is superior to one that contains a smaller percentage, and since that grade most nearly meets all demands required in asbestos products, it seems somewhat unfair to that standard of quality to designate it as No. 4 quality, thereby suggesting to the mind of the

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Boiler Setting Cement
Asbestos Rope and Wick Packing
Asbestos Gaskets
Prepared Asphalt Roll Roofings
Built-up Asphalt Roofings
Slate Surface Shingles

Waterproofing
Asphalt and Tarred Felts
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Roof Paints
Asbestos Roof Cements
Asphalt Pitch

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average person an inferior product. The grades in which a smaller percentage of cotton is found advantageous are used for particular purposes when the product is to be subjected to prolonged high temperature. Absolutely pure yarn is required only for the weaving of cloth to be used as diaphragms in the electrolytic production of oxygen and hydrogen or chlorine. It is here suggested that grade designations for asbestos yarns be adopted as follows:

"A" (Commercially Pure Yarn) designates 15% to 20% cotton content.
"AA" designates 8% to 10% cotton content.
"AAA" designates 4% to 5% cotton content.
"AAAA" (Absolutely Pure yarn) designates 100% asbestos—no cotton content.

These quality designations indicate the cotton content of the finished product and do not indicate the quantity of cotton to be used in the mixture. In planning the production of any certain grade of asbestos yarn, consideration must be given to the character of the asbestos fibre used. Asbestos from different mines differs so greatly in character that it is impossible to lay down a rigid standard of practice for the initial mixture and the regulating of the machinery to work that mixture.

For the purpose of soliciting constructive criticism on the part of the asbestos industry and consumers of asbestos yarn and textile products into which it enters, the following declarations are offered:

Grade "A".

This grade of yarn shall be acceptable as standard for heater cord construction, core of the heating element in curling irons, Asbestos braided tubing to be used upon electrical wires, Asbestos listing tape, cloth entering into the construction of electrical devices, brake lining, clutch facings, garments, valve stem, sheet and ring packing, rope and wick packing, and for any other asbestos product not to be subject to continued high temperature. or strong alkaline solutions.

Grade "AA".

This grade shall be standard for asbestos packing to meet Government specifications for extra high quality,

Johns-Manville

CORPORATION

■

and for any product to be subjected to extraordinary conditions of heat.

Grade "AAA".

This grade shall be used in weaving metallic asbestos cloth for the construction of theatre curtains.

Grade "AAAA"

This grade shall be a standard of quality for cloth to form diaphragms of electrolytic cells.

Even the Animals Use Asbestos

Sparrows, who know a good thing when they see it, are the latest species in Atlantic City. A chimney which had been encased in Asbestos pending the completion of the brick covering, became overheated and set fire to surrounding woodwork because the sparrows picked out the asbestos fibres from the covering, evidently with the intention of fireproofing their nests. They were taking no chances with the violent thunderstorms which visit that section in the summer, nor with other hot things accredited to the popular resort.

At the other end of the continent, in California, a messenger dog used by forest rangers, has recently been equipped with an asbestos coat to protect him when carrying orders from one sector of a forest fire to another. Rover, we are sure is properly appreciative.

A third instance is the lining of the bottom of a brooder stove with asbestos board. The stove sets rather close to the floor and the asbestos lining eliminates the danger of roasting the chicks prematurely.

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Asbestos Plays Important Part in Stack Repair

By H. C. Charles

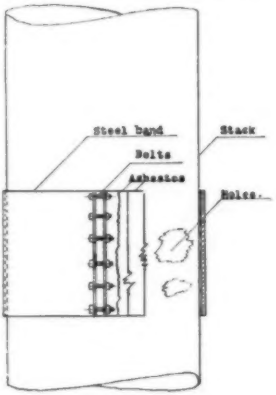
Rust constitutes one of the enormous wastes suffered by industrial institutions each year. Metal forming, as it does, the essential element of constructions of all kinds and necessarily placed out in the open where it becomes subject to the deteriorating elements will, if not properly protected, rust away. Even where the surfaces are regularly painted with a moisture proof paint other factors enter to assist in the destruction. So it was with a particular power plant smoke stack of the steel variety.

This stack was seventy-five feet high and thirty-six inches in diameter. The top sections were constructed of twelve gage steel and the bottom sections of ten gage steel. Two sets of guy wires were supplied, one set being at the fifty foot height and the other at the top. These guy wires were secured to trees, corners of buildings and two of them, designed to resist the Northwest winds, were secured to a dead man consisting of a telephone pole buried in the ground about ten feet below the surface. During a severe wind the wooden anchorage gave out, having been rotted away during the six year interval between its planting and the present time. The stack fell, but outside of being badly dented in some sections, with a crushed top section or two, it was still good for a few years of service. The management decided to replace the badly bent top, pound out some of the larger dents and reset the stack.

A new and secure dead man was used this time but the tree anchorage was overlooked; also the fact that the dents and their consequent pounding out had chipped the paint off at several places. During a wind the swaying of the tree caused the stack to sway in unison and with each sway there was a slight working of the metal where the dents had occurred. Along in the early winter, just when the stack was most needed (the plant being a heat-

ing plant only) a large hole appeared at one side about ten feet above the boiler room roof.

Something had to be done and done quick. The stack could not be removed as that would shut down the plant. It was decided to cover the rusted out hole with a band of steel.. Such a band was rolled into a circle using 3/16 in. stock 13 in. wide and bending the ends so as to form a flange to receive six 7/16 in. bolts for drawing the band around the stack. The band was sprung apart sufficiently to pass around the stack and raised to its position over the hole. Upon drawing the band tight it was found that there were large spaces where the band would not fit tight on the stack. These spaces could not be filled with paint as they were too wide.



The band was loosened up again and the stack wrapped with asbestos sheet using several thicknesses around the stack. The band was then applied and the job found to be tight. At another point about twenty feet above the boiler house roof there was another break in the stack. Profiting by the experience in connection with the former repair, a band was made out of galvanized iron of sufficient width to cover the space. A light angle (1 x 1 x 1/8 in.) was riveted to each end of this band and the angle provided with 3/8 in. bolts for drawing up. The stack was wrapped with asbestos sheets and the band applied.

The guy wire anchored to the tree was removed and secured to a properly constructed anchor underground to eliminate the tree vibrations and the stack has stood three years since the repair was made. With the asbestos serving as a protection and also sealing the joint and insuring the full force of the draft the lower repair could have been made with the thinner material as used on the top repair.

Asbestos Wallboard

Announcement is made of another industry which will further strengthen Western New York's position as the center of America's wallboard manufacture.

The new company entering the field is the Republic Asbestos Board Corporation, of Buffalo and Lockport. The Corporation will engage in the manufacture of an entirely new type of wallboard, using asbestos as the basic material instead of wood fibre or plaster. The manufacturers claim that the new building material will be fireproof because of its asbestos content and at the same time tougher, lighter and easier to handle than heavier plaster and gypsum wallboards.

Archibald W. Jack, president of the new corporation, in speaking of the market possibilities of Asbestos Wallboard, says:

"The immediate market for our board has already been assured. Preliminary market surveys show almost unlimited possibilities when the board is intensively merchandised. Every objectionable feature of wood fibre and gypsum boards has been overcome by asbestos wallboard. It equals or surpasses the tensile strength of other boards and will stand a temperature of 1900 degrees Fahrenheit without apparent disintegration. Moreover, because of its asbestos content, it will not warp or buckle, and because of

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its great tensile strength, it will stand much rough handling in shipment and on construction.

"The plants (see illustration) of the new company are already nearing completion and will be located in Lockport, N. Y. We expect to be in production by May, well in time for spring and summer building operations.

The present plans of the company call for an initial production of 40,000,000 square feet of asbestos wallboard a year. Provision has been made for increasing the output as soon as sales warrant, as well as for the future production of other asbestos products.

The capitalization of the company is $2,000,000. The personnel of the new Company is understood to include many men who have been actively associated with the Asbestos industry and with the wallboard industry.

A highly interesting and informative book called "Asbestos, the Unquenchable Stone," has been written, a copy of which may be had for the asking, from the Republic Asbestos Board Corporation, 845 Ellicott Square, Buffalo, N. Y.

The engineers of Johns-Manville, Inc., have just completed a national survey which shows that $1,000,000,000 is spent annually by the American public for heating purposes and that out of this amount $300,000,000 is wasted because of insufficient insulation of the houses themselves and the heating plants they contain.

The enlarged rear wheel brakes now used by the Ford Motor Company, mean an additional use of 13,000 tons of cast iron annually, 10,000 tons of steel and *2500 miles* of brake lining.

The Thirty-Eighth Annual Convention of the Heating and Piping Contractors National Association will be held at West Baden, Ind., June 1st to 4th inclusive.

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Fireproofing of Lead Cable*

By A. D. Pettee, *Assistant Engineer, Distribution and Installation Department, New York Edison Company*

The application of fireproofing materials to lead-covered cables where they are exposed in manholes, has always been a laborious process. Several methods are in vogue for applying the materials, most of them involving a tedious hand-wrapping operation. The common rope and cement mortar combination involves the spiral wrapping of a ¼ in. hemp or jute rope at a ¼ in. spacing around the cable, to serve as a base and binder for the cement mortar, which is plastered on a total thickness of 5/8 to 3/4 in. Another type of binder used with cement mortar is a wire lath provided with clay buttons. This is wound on spirally in strips about 3 in. wide. It is not only a laborious process, but the ends of the wire form a source of danger to the hands of the workmen. Another common fireproofing material is asbestos tape in various forms, used either with or without a cement mortar. A fourth method is the use of a cement mortar applied around the outside. All of these methods, it will be noted, involve a tedious handwrapping operation.

The elimination of this hand-wrapping operation is the purpose of a new combination of materials now being tested by the New York Edison Company. In this combination the means of avoiding the wrapping operation is a woven open-work stocking of asbestos cord, which is slipped over the end of the cable before it is spliced and serves as a base or binder for the cement mortar. The stocking (see illustration) is woven with a diagonal mesh so that it can be compressed endwise, slipped over the end of the cable and pushed back out of the way while the joint is being made. After the jointing operation the stocking is stretched out

*Reprinted from March 19th issue of Electrical World.

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tight on the cable and the ends are tied down. As the illustration shows the diagonal mesh construction permits the stocking to be expanded over the joint. This is a marked advantage, since the spiral wrapping of any tape, rope or wire lath over the enlargement at the end of the joint is always an awkward procedure. After the stocking is stretched out tight on the cable, the application of the cement mortar follows as usual this being now the only laborious part of the fireproofing work. The crossed asbestos cords form an admirable binder and reinforcement for the cement to surround the cords completely at many places, thus securing a firm grip on them. A reasonably well reinforced concrete structure is thereby assured.

For those cables that are already spliced, an open-work diagonal mesh band has been devised, which is folded about the cable longitudinally, the edges being drawn together by a lashing cord, giving the equivalent of the stocking described above, altho applied after the cable is spliced.

Preliminary tests indicate that with a suitable cement mixture the combination is very effective in fireproofing, as well as being a means avoiding much tedious labor.

Control of Aluminum Temperature with Asbestos

Close control of melting and pouring temperatures is essential in successful aluminum casting, and we find, from an article by Kirtland Marsh on "Control Aluminum Temperature" appearing in the March 15th issue of "The Foundry," that Asbestos makes such close control possible.

Temperatures of molten aluminum while in the pouring ladles are taken by means of thermocouples of various sorts. It has been found that a chromel-alumel couple insulated with Asbestos to within about ½ inch of the ends of the wires is probably the most efficient. The peculiar character of the insulation used for this purpose, is in large part responsible for the satisfactory service which these couples have given. When heated, the wax on the asbestos burns off, but the remaining asbestos is tough and seems to stand

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up better than asbestos cord wrapped or woven around the elements. (Evidently the insulation referred to is some sort of composition rather than plain Asbestos cord or tape).

The asbestos insulation eliminates any possibility of short circuits at the surface of the metal so that the temperature is measured as far below the surface as the couple is immersed.

In use, the chromel-alumel elements are dissolved gradually and the asbestos insulation gradually breaks away, but the elements and the insulation wear at about the same rate and it has been found that couples used to take readings *every five or six minutes* for 9 hours a day require to be cut back an inch or two only once every three days.

It is not necessary to remove any aluminum clinging to the wires when they are withdrawn nor is it essential that they be immersed to the full length of the adhering aluminum the next time they are used as long as the asbestos insulation extends 2 or 3 inches below the surface of the metal. These couples generally are made up about 36 inches long and can be used until they are not more than 12 inches or less.

To our minds, the most striking point brought out by the above is the fact that Asbestos makes possible the minute accuracy required.

Remember! We can't print news until we know it. If you know any, send it along.

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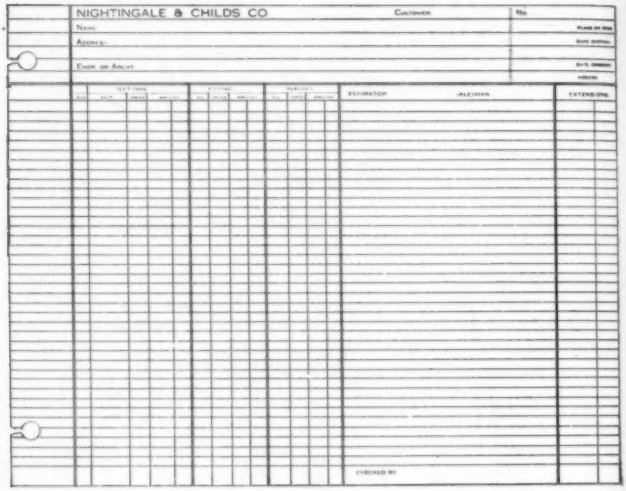
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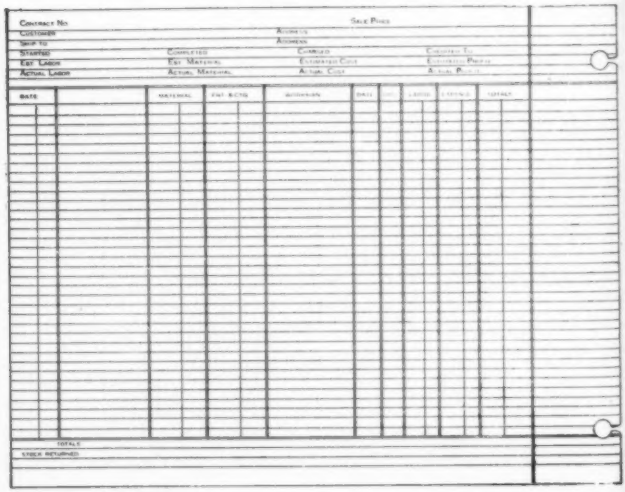
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Extended Cost
Actual Labor
Actual Material
Actual Cost
Sale Price
Address
Address
Date
Material
Labor
Total
Total
Stock returned

CONTRACTORS AND DISTRIBUTORS PAGE

COMBINATION ESTIMATE AND CONTRACT RECORD SHEET

This combination form is used by Nightingale & Childs Company of Boston, Mass., who find it very effective and convenient.

The Estimate Sheet appears on one side (see top form opposite page) while on the other side of the sheet is space to fill in the actual costs incurred. (bottom form opposite page).

Note that near the top of the contract record sheet (at bottom of page) the estimated labor is given and when the work has been done, is compared with the actual labor cost; also estimated material and actual material, estimated cost and actual cost, estimated profit and actual profit. This keeps a very desirable check on the estimating costs compared with the actual costs, and such check can be made at any time during the progress of the work, a most desirable feature.

BUILDING STATISTICS

A substantial increase is noted in contracts awarded during February 1927 when compared with the January figures. In January contracts were awarded for 9,276 projects, valued at $384,455,400, with floor space of 53,262,600, while in February, the number of projects was 11,045, value $393,582,500, with floor space of 54,844,100.

WAGE NOTES

In Portland, Ore., composition roofers have been raised from $7.00 to $9.00 per day, effective March 1st. On May 1st, the same trade in Dayton, Ohio, will be raised from 91¼c to 97½c an hour, while slate and tile roofers in that city on the same date will receive a wage of $1.22½, their former rate being $1.16¼.

Cleveland, O. The agreement which expired March 1st has not as yet been renewed but the men are still working and will presumably continue to work, new agreement to be taken up for consideration at such time as all other building trades have settled their wage disputes.

Houston and San Antonio, Texas. Agreement not as yet signed. The old agreement expired March 1st.

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Assistant to President or to Manager of Insulation Contracting Company. One Year Experience. Can check progress and cost contracts and sell. Address 4N-A, "ASBESTOS".

ASBESTOS

This page devoted each month to the discussion of brake lining activities by O. B. Towne, Commissioner of the Asbestos Brake Lining Association

The Data Books went to press the last week in March and some of them are being finished up for delivery. The book is out much earlier than usual.

The value of our Data Book, our work in promoting brake testing campaigns, simplification and standardization and our publicity, are being recognized more and more.

When any Association serves the best interests of its industry and all members in the industry, it is bound to receive support.

A new phase of brake testing work is developing. The National Safety Council's local representatives conduct Safety Traffic Schools for automobile owners and drivers. All phases of public traffic are discussed. One whole day of the week in the school, is given over to brakes, brake equipment, brake testing and brake repair. It is a very successful and popular thing among the local Safety Councils. President Weaver of Keasbey & Mattison Company addressed the School at Pittsburg, Pa., and Dr. Stanley and Mr. P. B. Wooster of Raybestos, handled the work at Newark, New Jersey, using lantern slides.

Brake testing campaigns are being conducted this month at Lafayette, Ind., Findlay, Ohio, New Bedford, Pittsfield and Worcester, Mass., Trenton, N. J., and one or two are being started in the south.

A test in time saves lots of regrets.

AUTOMOBILE PRODUCTION

Production of automobiles in the United States and Canada during February 1927, totalled 317,014 vehicles, consisting of 275,156 passenger cars and 41,858 trucks. This is quite an increase over January, the total production during that month being 249,518 automobiles, while in February 1926, 288,437 were produced.

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FACT AND FANCY

The Fight Against Fire.

If there is any one group, or industry, under the sun which should be more interested in fire protection than others, that group is composed of those interested in the mining, manufacture and sale of asbestos, for after all, the basic purpose of the use of asbestos is *fireproofing*, or, in milder form, *heat resistance*.

It therefore behooves the Asbestos Industry to give particular attention, assistance, co-operation and support, morally, financially and otherwise, to the campaign shortly to be launched by the National Fire Protection Association for fire prevention.

The purpose of the campaign stated briefly, is to raise half a million dollars to be used in a concerted attack on the fire menace.

The annual loss by fire in the United States is ten times the loss in Europe. Either as a matter of national pride, or for economic reasons, every citizen of the United States should give generously in time and service, to the forwarding of the fight on fire.

The plan, tentatively, is to send out ten skilled fire prevention engineers, to operate for the next five years wherever the local loss record indicates that fire conditions should be remedied. During the past two years the National Fire Protection Association has sent out two such engineers in order to determine what can really be accomplished by field work. These two men have carried the fight against fire to eighty different localities so successfully that with ten engineers in the field operating under the same plan of getting cities to protect themselves, it is estimated that fire losses can be cut down from 25 to 50% within five years.

The plan will benefit all, and none more so than those firms or individuals who carry fire insurance. The fire insurance rate is determined by fire losses—reduce the fire losses and you reduce the rate. Any contribution made, therefore, is a direct investment.

Some of the most widely known men in the country are members of the national executive committee in charge of the campaign, the chairman being Irving T. Bush, President of the Bush Terminal Company.

"ASBESTOS" has already registered with E. J. Mehren, National Vice Chairman, and connected with the McGraw Hill Publishing Company, its willingness to cooperate along the lines of publicity, and we will be kept constantly in touch with developments, etc.

The Chinese Asbestos Industry.

Asbestos deposits occur in a number of provinces in China, including Chihli, Jehol, Chahar, Suiyan, Shensi, Szechan, Hypeh and Lwangtung. The mountainous districts in Northwestern Chihli especially abounds in deposits.

At present there are four asbestos manufacturing companies operating in Tientsin,—the Tientsin Asbestos Company founded in 1915 with a capital of $30,000 (it employs 30 workmen and turns out about 70,000 catties of asbestos products a year); the ChunHwa Asbestos Mfg. Company, employing 20 hands with a yearly output of 30,000 catties; the Jui Kee Asbestos Mfg. Company, employing 15 hands with a yearly output of 20,000 catties; and the Chang Asbestos Mfg. Co., engaged principally in the manufacturing of asbestos fibres.

The raw material consumed in the Tientsin works is obtained from the mines at Yichow, Laiyuan, Changping and Chaoyang, of which Laiyuan is particularly noted for its asbestos production, the deposit covering a total area of over 100 sq. li, and being worked by four companies,—the Hwa Pei Asbestos Mining Company, the Hsing Mou Asbestos Mining Company, the Hsing Chang Asbestos Mining Company and the Li Ya Asbestos Mining Company. The miners are recruited from the peasant class and the output is shipped to Tientsin either by railway or by junk thru Paoting.

Sample copies of "ASBESTOS" are sent free to anyone likely to be interested. Give us the names of those who do not, but should, receive it regularly.

MARKET CONDITIONS

Authentic comment on market conditions received direct from members of the industry, or representative groups, should be published on this page, but if members of the Industry, or representative groups refuse to supply it, will they be satisfied with comments, which because of difficulty in getting data may not truly reflect the real situation?

General.

Business in general is rather puzzled because things are not going as indicated by controlling factors, business slowing down quite considerably in the last month or six weeks. Scattered industries are laying off men; real estate is off, and various other indications are at least irritating. It is hoped that things will soon right themselves for the better.

Asbestos—Raw Material.

E. J. Wilson, of New York City, in commenting on the raw material market points to the Canadian Production figures for 1926 (see page 35), and says:

"More spinning material and shingle fibres were sold than were produced in 1926. The stocks on hand at the mines on December 31st, 1926, of crudes, spinning fibres and shingle fibres were very small, less than ever known, at least since the asbestos business became of any importance. At the end of 1925 most of the textile manufacturers had fair stocks in their sheds in anticipation of the Merger, but at the end of 1926, their stocks were much reduced.

"There is a large accumulation of paper stock and shorter fibres amounting to 50,000 tons, being an increase of 25,000 tons during the year. Some vigorous efforts in curtailing the production of these grades have been made by one or more of the mining companies."

Manufactured Products.

In the manufacturing end, little change is noted. Insulation, particularly high pressure material, shows good demand with firm price condition.

Asbestos Paper factories are fairly busy—and the favorable reaction in building during the last two months is an encouraging factor.

The textile mills are also fairly busy. In looking over

Allbestos Corporation

Quality Brake Lining
Textile Specialties

Asbestos
Yarns, Roving
Cord and Cloth

Manufactured from the raw materials by

Allbestos Corporation

PHILADELPHIA, PA.

the shipments of Asbestos from Canada during the past few months, we notice that the Bell Mine since the beginning of the year has shipped about one and a half times as much No. 2 Crude as has been shipped by all the rest of the Canadian mines put together. Also there have been large shipments during the period of No. 1 from other mines, and we understand that the most of this represents stocks accumulated for some years. This would indicate either a very considerable activity in the textile manufacturing industry or a very real shortage of No. 2 crude, possibly both.

Brake Lining is nearing the replacement season. The replacing of brake lining, due to the constant education of the public to the need of good brakes, and of course, to the increasing number of cars on the road, is showing yearly increase. Volume is great but the price situation is very unsatisfactory, as is evidenced by recently published financial statements for 1926.

The Asbestos Shingle season is just breaking, and every plant is busy. The increase in building operation is, naturally, going to result in increased asbestos shingle business.

On the whole, the Asbestos business is really enjoying better conditions than many other lines.

South Africa.

The demand for good crocidolite fibre is perhaps ten times the present supply, but the production and shipment of crude fibre overseas is by no means as important as the production of finished products in the Union. There is more than a possibility that 1927 will see the establishment in the Union of a manufacturing industry on a big scale.—*Quoted from the "Mining World."*

China.

An idea of the prices may be obtained from quotations current on the Tientsin market in December 1926: Asbestos cloth, coarse, 22 cents a lb., fine, 55c; metallic asbestos cloth 90c to $1.40; asbestos paper, thin, 75c per lb., thick, 70c; millboard 15c, asbestos yarn 22 to 30c.—*Abstracted from article appearing in the February 1927 issue of the Mining Journal.*

AMOSITE ASBESTOS

the new long-fibred material mined in the Transvaal, South Africa

THE CHEAPEST TEXTILE ASBESTOS IN THE WORLD

SPECIAL PROPERTIES

(1) Length of fibre
(2) Tensile strength
(3) High insulating properties
(4) Lightness of weight

This Asbestos, in its various grades, has been proved eminently suitable for—

(a) TEXTILES (Yarn and Cloth)
(b) ASBESTOS-CEMENT SLATES, and corrugated roofing
(c) BLOCKS for Boiler Insulation
(d) SECTIONAL COVERING
(e) ELECTRIC STORAGE BATTERY BOXES

The Cape Asbestos Co Limited
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Central Europe.

Dr. Gerhart Rosenbaum of Puchov, Czecho-Slovakia, sends us some interesting comments on the market conditions in Central Europe. He says:

In Central Europe Asbestos shingles will have a better volume this year than last, not only that there will be more building but Asbestos Cement Shingles are becoming more and more popular, even public buildings, schools, government buildings, barracks for soldiers, are roofed with this material. This is due not only to the high quality of the shingles but also to the large amount of advertising being done by the manufacturers.

In Poland and South Slavia, the demand has a rising tendency and therefore Czecho-Slovakia and Austria will have a small export to these countries this year, altho at low prices.

In Russia four Asbestos Shingle Factories and one Asbestos Board factory are proposed but the realization of these projects depends largely on the general situation in the country. At the present capacity of Russian Asbestos Mines, these new factories would consume the whole production of the Asbestos Mines in the Ural.

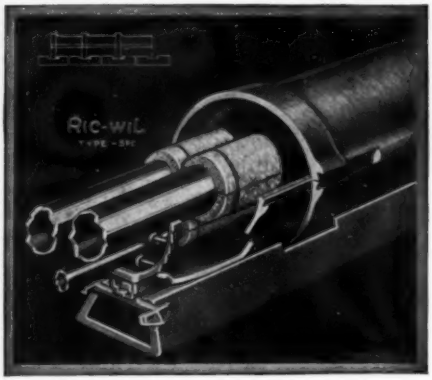
The Electric Industry and the Radio Industry will need during the present year, from three to four hundred tons of Asbestos for use in lumbers of a mixture of asbestos with rubber, asphalt and other insulation materials.

Make Your First Roof Last

One of the best slogans we have come across in the Asbestos Industry is that used by the Pyramid Asbestos Company of Houston, Texas—"Make your first roof last."

The Pyramid Asbestos Company, as will probably be guessed from their slogan, handle Asbestos Cement Shingles, and they do "make your first roof last."

The power of the slogan is, if rightly used, even more effective than a trade mark. A catchy phrase will linger in the minds of the people long after an artistic or even suggestive trademark is forgotten. Witness "Say it with Flowers" and "Save the Surface and you Save All."



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THE best steam pipe insulation made, if used in a conduit that does not protect it permanently against moisture, will fail to give full efficiency and thus give its maker a black eye in the mind of the customer.

Give your pipe covering a chance. Recommend that it be installed in Ric-wil, a conduit system so designed that it stays everlastingly dry, that can be installed by any contractor, costs no more installed than ordinary conduit, and is fully 40% stronger than other tile systems.

Write for full information about it.

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RIC-WIL
UNDERGROUND CONDUIT

It is our policy to cooperate with contractors and pipe covering manufacturers. Layouts, estimates, installation instructions, etc., gladly furnished.

Relation of production various Canadian grades and comparing with African and Cyprus production (Figured in short tons. No Asbestic included)
Cyprus - 6,940 tons
Cyprus - 3,607 tons
Rhodesia - 33, 344 tons
Rhodesia - 34, 349 tons
Union of South Africa - 14,096 tons
Union of South Africa - 10,167 tons
Canada - 299,658 tons. All Grades
Canada - 268,331 tons. All Grades
Canada - 4,150 tons } Crudes
Canada - 3,674 tons }
Canada - 13,482 tons } Spinning Fibre
Canada - 11, 551 tons }
Canada - 34,099 tons } Shingle Stock
Canada - 28,114 tons }
Canada - 247,927 tons. Paper and Other
Canada - 224,992 tons. Paper and Other
213,678 tons. Imported by United States of America from Canada } Including Sand & Waste
209,879 tons. Imported by United States of America from Canada
1926 1925

Showing Relation of Rock Mined to Usable Asbestos Produced in Canada
1926
4,479,138 tons Rock
299,658 tons Asbestos
1925
4,121,258 tons Rock
268,331 tons Asbestos

Canada (Bureau of Mines, Quebec)

The following tabulation shows sales of Asbestos from Canada during 1926 while the graph on the opposite page gives the production figures, comparing them with production from other countries for the same year. If you wish to compare these figures with the 1925 statistics, refer to pages 32 and 33 of the April 1926 issue.

	Sales		Av. Val.	Stocks on Hand Dec. 31, 1926	
	Tons	Value	per Ton	Tons	Value
Crude No. 1	1,094	$ 406,438	$371.51	909	$337,703
Crude No. 2	3,494	802,304	229.62	145	33,295
Crude, Run of mine	446	92,394	207.16	297	61,527
Spinning Fibre ..	14,482	1,885,835	130.22	2,115	275,415
Shingle Fibre	36,497	2,139,780	58.62	2,138	125,330
Mlbd. & Paper Fibre	86,746	2,940,675	33.88	29,499	999,426
Fillers, floats and other short fibres	135,930	1,828,061	13.45	21,038	282,961
Totals	278,689	10,095,487	36.22	56,141	2,115,657
By Products (Sand and gravel)	15,672	10,257	.65		
Totals	294,361	10,105,744			

Cyprus (Cyprus Asbestos Co.)

Production February 1927—None.

Rhodesia. (Rhodesia Chamber of Mines)

	December Tons (2000 lbs.)	1926 Value
Bulawayo District.		
Nil Desperandum (Af. Asb. Min. Co. Ltd.)	476	£ 8,446
Pangani (J. S. Hancock)	31	415
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	831	15,548
Lomagundi District.		
Ethel (Union & Rho. Tr. Ltd.)	53	1,325
Victoria District.		
Gath's (R. & Gen. Asb. Corp. Ltd.)	544	10,876
King (R. & Gen. Asb. Corp. Ltd.)	448	8,359
Grand Total	2,383	£44,969

ASBESTOS

Production of Rhodesia for the years 1925 and 1926, by months, in Tons of 2000 pounds.

	1925	1926		1925	1926
January	2,298.41	2,552.25	July	3,340.78	3,111.56
February ...	1,438.59	2,166.33	August	3,128.45	3,294.78
March	2,164.73	2,588.21	September ..	2,977.03	2,916.21
April	2,205.93	3,258.14	October	3,802.52	2,191.50
May	3,065.83	3,557.76	November ..	3,515.06	2,115.61
June	3,416.49	3,208.59	December ...	2,995.26	2,383.15
			Total	34,349.08	33,344.09

Union of South Africa (Dept. Mines & Industries)

	December Tons (2000 lbs.)	1926 Value
Transvaal (Amosite)	239	£ 2,390
Transvaal (Chrysotile)	302	6,469
Cape (Blue)	448	9,406
	989	£18,265

Production of the Union for the years 1925 and 1926, by months, in Tons of 2000 pounds.

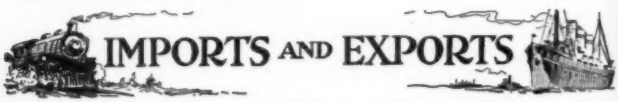
January	794	691	July	840	1,073
February	821	1,178	August	1,072	1,598
March	784	1,282	September	842	998
April	598	1,581	October	921	1,294
May	819	698	November	848	1,095
June	763	1,619	December	1,081	989
			Total	10,161	14,096

India.

During 1925 production of Asbestos in India amounted to only 16 tons, valued at Rs 4,796 (£361). The 1924 production was 125.3 tons, valued at Rs. 18,826 (£1,354).

Material came from the Cuddapah district in the Madras Presidency.

Mines in the Seraikela State of Bihar and Orissa Provinces were not worked during 1925.



Imports into U. S. A.

Unmanufactured Asbestos.	February 1926 Tons (2240 lbs.)	Value	February 1927 Tons (2240 lbs.)	Value
Africa (Br. S.)	26	$ 2,649	196	$ 28,996
Africa (Port. E.)	..	...	6	1,890
Canada	18,316	572,967	13,244	553,807
Germany	50	5,679	102	26,810
United Kingdom	90	20,557	23	8,261
	18,482	$601,852	13,571	$619,764

Asbestos Fibre

for the manufacture of

Roofing Cements · Fibrous Paints
Filtration Packings
Asbestos Shingles and Lumber
Insulating Cements
Asbestos Paper · Pipe Coverings
Asbestos Millboard
High Temperature Cements

THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE *of* QUEBEC
CANADA

Of the February 1927 material, all from British South Africa, Portuguese East Africa and Germany was Crude, while that from the United Kingdom consisted of 22 tons of Crude, valued at $8,217, and 1 ton of Mill Fibre, valued at $44. The material coming from Canada consisted of 447 tons of Crude, valued at $128,225; 5,346 tons of Mill Fibre valued at $306,994; and 7,451 tons of lower grades, valued at $118,588.

Manufactured Asbestos.

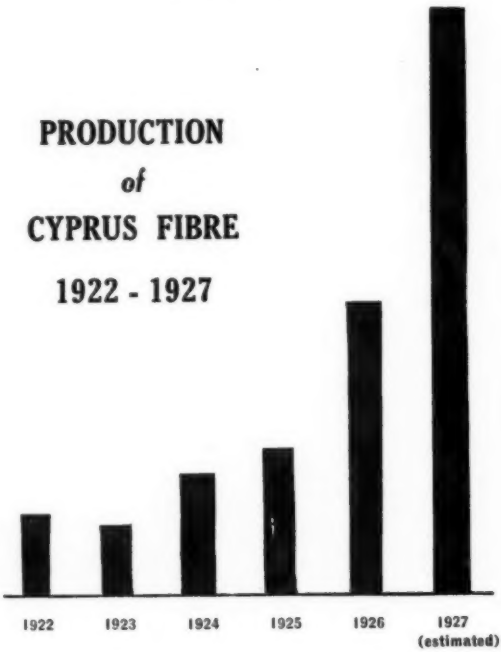
	February 1926		February 1927	
	Pounds	Value	Pounds	Value
Yarn—				
Italy	...	...	99	$ 90
United Kingdom	18,778	$ 5,178	20,974	6,179
Fabrics, Woven—				
United Kingdom	7,845	3,865	1,791	2,040
Fabric, Packing—				
United Kingdom	464	243	1,382	1,122
Packing, Not Fabric—				
Austria	...	...	9,607	2,070
Canada	3	3	...	...
Germany	.	.	3,641	789
Shingles, Slate, Wood and Lumber—				
Belgium	902,195	13,520	9,272,697	132,598
France	...	...	992,598	19,050
Italy	...	...	120,465	2,404
Netherlands	78,554	1,271	274,353	4,345
	980,749	14,791	10,660,113	158,397
Asbestos Cement—				
Canada	175	29		
Italy	597,148	10,790		
	597,323	$10,819		
Paper and Millboard—None.				
Other Manufactures—				
Austria	...	...	8	4
Belgium	...	...	30,000	3,993
Canada	711	43	716	34
Germany	101,712	2,270	182	410
United Kingdom	8,010	2,556	2,271	799
	116,832	$4,869	33,177	$5,240
	1,715,595	$39,768	10,730,784	$175,927

Noticing that the figures compiled by U. S. Customs

CYPRUS ASBESTOS COMPANY

LIMITED

PRODUCTION
of
CYPRUS FIBRE
1922 - 1927



SALES OFFICE:

49 ST. JAMES'S STREET, LONDON, S. W. I.

covering Imports of Asbestos Cement were running high, and doubting whether such a large quantity of Asbestos Cement was being imported into the United States, a suggestion was made to the U. S. Customs Department that possibly some of the importations had been wrongly classified and should be included under some other classification. The Customs Department investigated and advised that part of the material classified as Asbestos Cement should have been included with the imports of Packing, fabric, and another large quantity should have been included with the figures on Shingles, slate, wood or lumber. We do not have the exact figures but Imports of Asbestos Cement during 1926 (See tabulation on page 40 of February "ASBESTOS") should be decreased by over two million pounds. We believe figures for 1927 will be correctly compiled by the Customs Department.

Exports from the U. S. A.

Exports of unmanufactured asbestos for the month of February 1927 amounted to 13 tons valued at $1,538; during February 1926, 6 tons of unmanufactured asbestos were exported, valued at $1,252.

Exports of manufactured asbestos goods:

	February 1926		February 1927	
	Pounds	Value	Pounds	Value
Paper, Mlbd. & Rlbd.	167,143	$ 14,049	93,384	$ 8,993
Pipe Covg. & Cement	511,391	34,697	412,527	25,653
Textiles, Yarn & Pkg.	81,375	54,332	96,309	62,369
Brake & Clutch Ln'g.	113,884	77,512	91,699	65,024
Magnesia & Mfrs. of.	294,792	21,828	462,869	30,766
Roofing (Asbestos)..	5,973 sqs.	34,746	6,266 sqs.	59,379
Other Manufactures.	382,060	319,659	319,659	32,735

Imports and Exports by England.

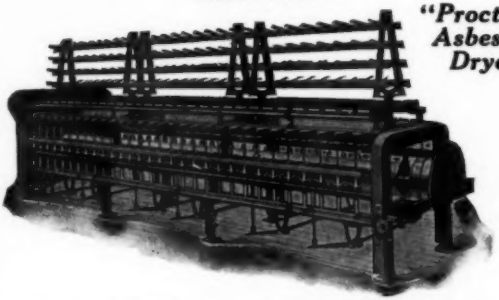
Imports of raw material.

	February 1926		February 1927	
	Tons (2240 lbs.)	Value	Tons (2240 lbs.)	Value
From Rhodesia	568	£14,884	404	£15,049
From Canada	228	4,513	1,062	15,355
From Other Countries	407	11,617	200	6,067
Total	1,203	£31,014	1,666	£36,471
Re-Shipments	114	4,210	260	8,270

ASBESTOS YARN MACHINERY

"Smith-Furbush"

"Proctor" Asbestos Dryers



PROCTOR & SCHWARTZ, INC.

Formerly Smith & Furbush Machine Co.

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Nederlandsche Asbest My.

Importers of Asbestos
Crudes and Fibres

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Codes
A B. C. 5th Edition
Western Union
Lieber's Code

Exports of Manufactured Asbestos Goods:

	February 1926 Tons (2240 lbs.)	Value	February 1927 Tons (2240 lbs.)	Value
To Netherlands	37	£ 4,668	19	£ 3,095
To France	25	6,392	30	3,189
To U. S. A.	16	2,384	29	4,022
To British India	711	15,205	969	15,731
To Australia	35	7,120	24	5,949
To Other Countries	1,301	53,607	1,433	49,459
Total	2,125	£89,376	2,504	£81,455

Exports of Raw Asbestos from Canada.

	January 1926 Tons (2000 lbs.)	Value	January 1927 Tons (2000 lbs.)	Value
United Kingdom	260	$ 16,250	327	$ 24,250
United States	7,347	433,690	5,945	363,114
Australia	...	...	200	14,000
Belgium	1,590	79,250	345	20,915
Denmark	60	3,300	...	...
France	315	30,370	340	21,200
Germany	210	22,100	341	39,450
Italy	516	24,803	778	47,765
Japan	855	47,375	620	33,538
Netherlands	30	6,000	68	11,425
Total	11,183	$663,138	8,964	$575,657
Sand and Waste—				
United Kingdom	...	...	380	9,200
United States	12,794	158,819	7,475	107,347
Belgium	50	1,000	...	...
France	30	240	...	...
Germany	51	1,008	2	6
Netherlands	30	600	...	...
Other Countries	...	...	5	125
Total	12,955	$161,667	7,862	$116,678
Grand Total	*24,138*	*$824,805*	*16,826*	*$692,335*

When you see one of your competitors mentioned in the news or editorial columns of "ASBESTOS," don't wonder how he got the free advertising, but send us news of your own company so that you may be mentioned in the next number.

WANTED

Corrugator for asbestos paper; new or used; in good condition. Give particulars as to brand, speed, motive power, age, condition, price, and location. Address 4A-C1, "ASBESTOS".

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The Expert Examination of Asbestos Properties

High-Grade Asbestos Textiles

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YARNS. CORD, MANTLE YARNS
PLAIN AND METALLIC CLOTHS
BRAIDED AND WOVEN TAPES
BRAIDED TUBINGS
WOVEN SHEET PACKINGS
WOVEN BRAKE LININGS
GLOVES, MITTENS, LEGGINS
GASKETS, SEAMLESS AND JOINTED
PACKINGS, STEM AND HIGH PRESSURE
WICK AND ROPE

ASBESTOS FIBRE SPINNING COMPANY
NORTH WALES, — PENNA.

NEWS OF THE INDUSTRY

Birthdays. It is our pleasure to extend congratulations and birthday greetings to George A. MacLellan, Managing Director of George MacLellan & Co., Ltd., Glasgow, Scotland, whose birthday date is April 19th; to John P. Kerner, President of the Mohawk Asbestos Slate Co., Utica, N. Y., whose birthday occurs on April 25th; to J. Carroll Johnston, President and Treasurer, Atlas Asbestos Company, North Wales, Pa., whose birthday date is April 28th, and to Alvin M. Ehret, President, Ehret Magnesia Mfg. Company Valley Forge, Pa., whose birthday occurs on May 15th.

F. A. Podwils, former Manager of the Cleveland Branch of Keasbey & Mattison Company, and later with the Clark Asbestos Company of Cleveland, has during the past month organized his own company and is doing business as the Podwils Asbestos Company. At present Mr. Podwils is purchasing his materials in Cleveland in the open market.

The Podwils Asbestos Company is located at 2317 Tampa Avenue, Cleveland and handles pipe and boiler coverings, roofing materials and asbestos table mats.

Johns-Manville, Inc. Initial quarterly dividends on the new stock of Johns-Manville, Inc., have been declared at the rate of 75 cents a share on the common, payable April 15th to holders of record April 1st, and $1.75 a share on the preferred, payable April 1st to stock of record March 19th.

"Asbestos and Its Importance as a National Asset" is the title of a very interesting article, written by E. Schaaf-Regelman of New York City, and appearing in the March 1927 issue of The Mining Congress Journal.

The article is carefully written and presents an unprejudiced view of the Asbes-

tos Industry from a somewhat different angle to that generally covered.

"Asbestos, the Unquenchable Stone". Our readers should add to their Asbestos Libraries, this book recently published by the Republic Asbestos Board Corporation, and mentioned elsewhere (page 12) in this issue. Altho of an advertising nature, the book tells the story of Asbestos in an interesting way, is most attractively printed and will be welcomed by those who are collecting books on the subject of Asbestos.

The Asbestos Shingle, Slate & Sheathing Company's new plant at St. Louis has been delayed somewhat in completion due to a dispute between various Unions which appeared unable to decide what class of workmen should apply the Asbestos Corrugated Sheathing to the roof and sides of the building. The dispute has finally been settled by half the roofing work being taken by the structural iron union, and the other half by the roofing union, while the carpenters' union has been allowed to put the siding on the building. The dispute has caused about four weeks delay.

Philip Carey Co. Some very attractive printed matter has recently been issued by the Philip Carey Company in connection with the marketing of their new products—Asbestos Cement Shingles and Sheets. We particularly like their "Application Manual and Reference Book" which shows exactly how the shingles are applied, while their "Harmony in Home Design" is a most beautiful piece of work and a real pleasure to read.

Freight Classifications. Docket No. 30, of the Consolidated Classification Committee, lists several suggested changes in Classifications of Asbestos materials.

Asbestos Yarn is at present classified in all territories, as 1st class in less carloads and 3rd class in carloads. The shippers have suggested a change in the Classification whereby Asbestos Metallic Yarn, Wire Reinforced, will take 2nd class in less carloads and 4th class in carloads, with a minimum of 30,000 lbs. All other Yarns to remain as at present.

Asbestos Sand and Refuse—The carriers have proposed a change to eliminate the word "Refuse" entirely, allowing the rates to remain as at present and in the description, Asbestos Shorts, the rate in Western Classification territory to be reduced from a 3rd to a 4th class, and in carloads, from 5th to a "C" class.

Corrugated Asbestos Paper, Boiler or Pipe Covering, has heretofore been shipped under the description of Asbestos Paper, the word "Corrugated" having been omitted in the description. The carriers now propose on Corrugated Asbestos Paper, Boiler or Pipe Covering, a rating of 1st class, less carloads, in the official classification, and of 3rd class, official classification in carloads, with a minimum of 16,000 pounds.

Official hearings are scheduled for April 12th in New York,

April 19th in Chicago, and April 27th in Atlanta, Ga.

The Ric-Wil Company. It is our pleasure this month to welcome a new advertiser to our pages, The Ric-Wil Company (See page 33). A great many of our readers will be glad to know about Ric-Wil Underground Conduit, and add it to their other lines.

Bell's United Asbestos Company, Limited. The annual report of Bell's United Asbestos Company, Limited, of London, for 1926, shows a very satisfactory profit, viz: £51,303/3/4, as against £50,408/19/- in 1925. Their balance sheet for 1925 is given in brief below:

ASSETS

Cash				£ 30,678	11 10
Bills Receivable				9,340	11 8
Investments				111,381	10 11
Shares and Debentures in Asso. Companies				314,681	17 8
Debtors				174,965	8 11
Payments in Advance and Sdry. Dr. Bal.				4,347	4 6
Stock in Trade				90,918	7 3
Plant, Mchy., Fittings, etc., less Depr.				40,338	6 6
Freehold Premises, less mtg. (Southwark St.)				27,676	19 2
Freehold Land and Bldgs., Harefield and Italian Mining Concessions				103,764	2 8
				£907,993	0 7

LIABILITIES

Capital Stock fully paid				353,532	0 0
Bonds, etc. plus int. due January 1927				95,249	5 0
Creditors and Credit Balances				139,670	8 11
Staff Pension Account				2,000	0 0
Reserve Funds				202,414	14 5
Depreciation Reserve				38,000	0 0
Profit and Loss Account					
Brought from Dec. 31, 1925	34,961	14	11		
Profit for Year	51,303	3	4		
	86,264	18	3		
Less Dividends Paid	9,138	6	0		
				77,126	12 3
				£907,993	0 7

The Directors upon receipt of this report recommend the payment on April 11th, 1927, of a Dividend on the Ordinary Shares of 2s 0d. per share, making a total distribution of 12½% for the year; the placing of £2,000 to Staff Pensions Account, and the carrying forward of £43,973 8s. 3d.

C. J. Stover, whose address is 246 N. 17th Street, Philadelphia, requests us to state that he is now, just as he has been for the past ten years, at the service of the Industry.

Mr. Stover will undertake any task for any individual or Company which task is not prejudicial to the interests of other individuals or Companies.

Mr. Stover especially wants it understood that he is not in the employ of any one Company, or individual, regardless of rumors to the contrary.

South African Blue Asbestos Producers Association. At a

well attended meeting of Blue Asbestos Producers held in Kimberley on February 11th, 1927, it was definitely agreed to form a "South African Blue Asbestos Producers Association." The headquarters are at Kuruman, and the secretary is H. S. Milner.

A start has been made by agreeing upon a uniform system of grading Fibre according to length, and upon the short ton as basis of quotations and uniform terms of payment.

The Chairman of the meeting, C. J. N. Jourdain, Inspector of Mines, hinted that the Government might pass a grading Act for base minerals with the idea of preventing inferior material from being exported and, as has been the case in the past, bringing discredit upon this or that industry. Such an Act, it is thought, would be desirable.

The Southern Asbestos Company, Baltimore, Md., is distributing Hollywood fibres to the general trade and reports satisfactory volume of sales. Hollywood Asbestos is used in Stucco, Plaster, Flooring and for other fireproofing purposes.

H. E. Sunbury, formerly with the Multibestos Company of Walpole, Mass., on February 26th resigned that connection to take the position of Production and Mill Manager with the Asbestos Spinning & Weaving Corporation, Waterford, N. Y.

The Ambler Asbestos Company of Cuba has recently been incorporated under Cuban laws, with home office in Havana, for the sale in Cuba of asbestos corrugated roofing and siding, asbestos shingles, tile and other building materials manufactured by the Asbestos Shingle, Slated Sheathing Company of Ambler, Pa.

The officers of the company are Richard V. Mattison, M. D., President; Royal Mattison, 1st Vice President; Robert J. Lewis, who has been managing the Cuban business is 2nd Vice President.

PATENTS

Brake Testing Machine. No. 1,612,928. Granted on January 4th to Harold W. Langbein, Los Angeles, Cal. Filed January 18, 1926. Serial No. 81,942. (Further information upon request.)

Brake Band Lining. No. 1,615,490. Granted, on January 25th, to Alvin H. Sweet, Los Angeles, Calif., filed August 30, 1926. Serial No. 132,588. Described as a brake band lining comprising. a flexible strip adapted for mounting within a brake band and having spaced sections of woven friction fabric attached to the inner surface of the strip, said sections having selvedges and warp threads transverse to the strip.

Heat Insulating Material. No. 1,615,801. Granted on January 25th, to Armin Elmendorf, Chicago, Ill., assignor to the Haskelite Mfg. Corporation. Filed February 4, 1921. Serial No. 442,406. Described as a material comprising a thick, stiff, self-supporting sheet of cork board and comparatively thin layers of sheathing material glued to and extending over only the broad bases thereto, at least one of said layers being metal.

Asbestos Prepared Roofing

3 Ply White Seal Asbestos Roofing
4 Ply White Seal Asbestos Roofing
4 Ply Fire Chief Asbestos Roofing, Burlap Center
3 Ply Black Seal Asbestos Roofing
4 Ply Black Seal Asbestos Roofing

These are all mineral products made to withstand the elements and give life time service.

Approved by the Board of Underwriters' for use in fire zones.

Highest quality Roofing manufactured.
First cost your only cost.

Asbestos Built-Up Roofing Felts

Asbestos Asphalt No. 2 Impregnated Felt
Asbescoat No. 67 Base Felt
Asbestos No. 30 Base Felt
Asbestos No. 35 Base Felt
2 Ply White Seal Asbestos Base Felt
2 Ply Black Seal Asbestos Base Felt

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Erie, Pa.

85% Magnesia

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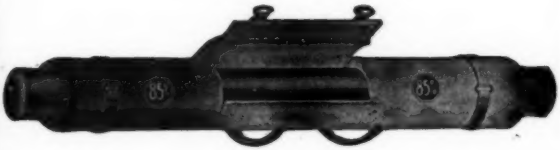

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